

BAB V

PENUTUP

A. Kesimpulan

Kesimpulan yang dapat diambil dari penelitian yang dilakukan yaitu:

1. Penelitian ini berhasil membuat sebuah aplikasi presensi siswa berbasis *Radio Frequency Identification* (RFID) pada SMP Negeri 1 Godean. Sehingga proses presensi menjadi lebih efektif dan hasilnya lebih akurat.
2. Aplikasi presensi siswa berbasis *Radio Frequency Identification* (RFID) pada SMP Negeri 1 Godean telah dilakukan pengujian sistem dan sistem dapat berjalan dengan baik. Hal ini ditunjukkan dari nilai terbanyak hasil uji coba yang dilakukan yaitu uji coba tampilan aplikasi 73% menjawab menarik, kemudahan dalam menggunakan aplikasi 60% menjawab mudah, efektivitas kinerja aplikasi 83% menjawab baik, keakuratan hasil yang ditampilkan 63% menjawab akurat, dan manfaat aplikasi 67% menjawab bermanfaat.

B. Saran

Saran yang dapat diberikan untuk pengembangan aplikasi presensi siswa yang selanjutnya yaitu aplikasi nantinya terdapat fasilitas untuk memberikan izin kepada siswa jika tidak dapat mengikuti mata pelajaran tertentu. Selain itu juga harus memperhitungkan biaya yang akan dikeluarkan dalam pembuatan aplikasi.

DAFTAR PUSTAKA

- Aditia, Bima. 2013. *Aplikasi RFID Untuk Sistem Presensi Mahasiswa Di Universitas Brawijaya Berbasis Protokol Internet*. Skripsi. Fakultas Teknik Universitas Brawijaya Malang.
- Kendall, K.E., dan J.E. Kendall. 2003. *Analisis dan Perancangan Sistem*. Alih Bahasa oleh Thamir Abdul Hafedh Al-Hamdany. Jilid Ke-1. Edisi Ke-5, PT. Prenhallindo. Jakarta
- Martina, Inge. 2004. *36 Pemrograman Visual Borland Delphi 7*. Jakarta : Elex Media Komputindo.
- Maryono. 2005. *Dasar-dasar Radio Frequency Identification (RFID) Teknologi Yang Berpengaruh di Perpustakaan*. Media Informasi 2005 Vol. XIV No.20.
- Paulus, 2013. *Sistem Absensi Berbasis Radio Frequency Identification (RFID) pada Mikroskil*. Skripsi STMIK Mikroskil. Medan.
- Saputra, W.E. 2014. *Sistem Aplikasi RFID Untuk Absensi Pada SMK Dr Tjipto Semarang*. Teknik Telekomunikasi, Fakultas Ilmu Terapan, Universitas Telkom. Bandung.

LAMPIRAN

SCRIPT PROGRAM

1. DM.pas

```
unit DM;

interface

uses
  SysUtils, Classes, DB, ZAbstractRODataset, ZAbstractDataset,
  ZDataset,
  ZAbstractConnection, ZConnection;

type
  TDMo = class(TDataModule)
    conn: TZConnection;
    zqSiswa: TZQuery;
    dsSiswa: TDataSource;
    dsAdmin: TDataSource;
    zqAbsen: TZQuery;
    dsAbsen: TDataSource;
    zqAdmin: TZQuery;
    intgrfldAbsenid_kehadiran: TIntegerField;
    intgrfldAbsenid_siswa: TIntegerField;
    dtfldAbsentanggal: TDateField;
    tmfldAbsenjam_hadir: TTimeField;
    strngfldAbsenstatus: TStringField;
    strngfldAbsenNamaSiswa: TStringField;
    strngfldAbsenKodeKartu: TStringField;
    zqpublic: TZQuery;
    dspublic: TDataSource;
    zqwali: TZQuery;
    dswali: TDataSource;
    procedure DataModuleCreate(Sender: TObject);
  private
    { Private declarations }
  public
    { Public declarations }
  end;

var
  DMO: TDMo;
  login_as:string;
  user_ses,kelas_ses:String;

implementation

uses
  uLogin, uDataSiswa, uAdmin, uRekap;

{$R *.dfm}

procedure TDMo.DataModuleCreate(Sender: TObject);
var
  i : Integer;
begin
  conn.Connected:=True;
```

```

for i:=0 to self.ComponentCount-1 do
  if ((Self.Components[i] is TZQuery) ) then
    begin
      (self.Components[i] as TZQuery).Active:=True;
    end;
end;

end.

```

2. uLogin.pas

```

unit uLogin;

interface

uses
  Windows, Messages, SysUtils, Variants, Classes, Graphics,
  Controls, Forms,
  Dialogs, StdCtrls, cxGraphics, cxControls, cxLookAndFeels,
  cxLookAndFeelPainters, cxContainer, cxEdit, dxSkinsCore,
  dxSkinsDefaultPainters, cxTextEdit, Menus, cxButtons, ExtCtrls,
  dxGDIPlusClasses;

type
  TFLogin = class(TForm)
    lbl1: TLabel;
    lbl2: TLabel;
    inputUser: TcxTextEdit;
    inputPass: TcxTextEdit;
    btnMasuk: TcxButton;
    btnCan: TcxButton;
    img1: TImage;
    bv11: TBevel;
    lbl3: TLabel;
    cxButton1: TcxButton;
    procedure FormShow(Sender: TObject);
    procedure edtUserNameKeyPress(Sender: TObject; var Key: Char);
    procedure edtPassKeyPress(Sender: TObject; var Key: Char);
    procedure btnMasukClick(Sender: TObject);
    procedure btnCanClick(Sender: TObject);
    procedure inputUserKeyPress(Sender: TObject; var Key: Char);
    procedure inputPassKeyPress(Sender: TObject; var Key: Char);
    procedure cxButton1Click(Sender: TObject);
  private
    { Private declarations }
  public
    { Public declarations }
  end;

var
  FLogin: TFLogin;

implementation

uses
  DM, uUtama;

```

```

{$R *.dfm}

procedure TFLogin.FormShow(Sender: TObject);
begin
    inputUser.SetFocus;
    lbl3.Visible:=False;
end;

procedure TFLogin.edtUserNameKeyPress(Sender: TObject; var Key:
Char);
begin
    if Key=#13 then
        begin
            inputPass.SetFocus;
        end;
end;

procedure TFLogin.edtPassKeyPress(Sender: TObject; var Key: Char);
begin
    if Key=#13 then
        begin
            btnMasuk.SetFocus;
        end;
end;

procedure TFLogin.btnMasukClick(Sender: TObject);
var
    mode:String;
begin
    if (inputUser.Text='') then
        begin
            Application.MessageBox('Maaf, Form tidak boleh
kosong.', '.:PEMBERITAHUAN:', MB_OKCANCEL+MB_ICONINFORMATION);
            inputUser.SetFocus;
        end
    else
        if (inputPass.Text='') then
            begin
                Application.MessageBox('Maaf, Password harus
diisi.', '.:PEMBERITAHUAN:', MB_OKCANCEL+MB_ICONINFORMATION);
                inputPass.SetFocus;
            end
        else
            begin
                with DMO.zqAdmin do
                    begin
                        Close;
                        SQL.Clear;
                        SQL.Text:='SELECT * FROM admin WHERE username='+
QuotedStr(inputUser.Text)+'
                        ' AND password='+ QuotedStr(inputPass.Text);

                        Open;
                        if DMO.zqAdmin.RecordCount > 0 then mode:='admin';
                    end;
                    if DMO.zqAdmin.RecordCount = 0 then
                        with dmo.zqAdmin do
                            begin
                                Close;
                                SQL.Clear;

```

```

        SQL.Text:='select * from wali where user_wali =
        '"+inputUser.Text+'" and pass_wali = '"+inputPass.Text+'";
        Open;
        if DMo.zqAdmin.RecordCount > 0 then mode:='wali';
        end;

        if DMo.zqAdmin.RecordCount = 0 then
        begin
            lbl3.Visible:=True;
            inputPass.SetFocus;
            exit;
        end
        else
        begin
            FLogin.Close;
            FUTama.Show;
            ////FUTama.AdvPanell1.Height:=49;
            inputUser.Text:='';
            inputPass.Text:='';
            FUTama.Keluar1.Enabled:=True;
            FUTama.Login1.Enabled:=False;
            FUTama.DataSiswal.Enabled:=True;
            //FUTama.Setting1.Enabled:=True;
            FUTama.Presensil.Enabled:=True;
            FUTama.ransaksil.Enabled:=True;
            //FUTama.Laporan1.Enabled:=True;
            FUTama.utup1.Enabled:=False;
            if mode = 'admin' then
            begin
                login_as:='admin';

                FUTama.Wali1.Visible:=True;
                FUTama.Admin1.Visible:=True;
                FUTama.stat1.Panels[0].Text:='Nama User :
'+DMo.zqAdmin.FieldByName('username').AsString;
                FUTama.stat1.Panels[4].Text:='Semua Kelas';
            end
            else
            if mode = 'wali' then
            begin
                login_as:='wali';
                kelas_ses:=DMo.zqAdmin.FieldByName('kelas').AsString;
                FUTama.Wali1.Visible:=False;
                FUTama.Admin1.Visible:=False;
                FUTama.stat1.Panels[0].Text:='Nama User :
'+DMo.zqAdmin.FieldByName('wali_kelas').AsString;
                FUTama.stat1.Panels[4].Text:='Kelas: '+kelas_ses;
            end;
            with DMo.zqAdmin do
            begin
                Close;
                SQL.Clear;
                SQL.Text:='select * from admin';
                Open;
            end;
            exit;
        end;
    end;
end;
end;

```

```

procedure TFLogin.btnCanClick(Sender: TObject);
begin
inputUser.Text:='';
inputPass.Text:='';
FLogin.Close;
end;

procedure TFLogin.inputUserKeyPress(Sender: TObject; var Key: Char);
begin
if Key=#13 then
begin
inputPass.SetFocus;
end;
end;

procedure TFLogin.inputPassKeyPress(Sender: TObject; var Key: Char);
begin
if Key=#13 then
begin
btnMasuk.SetFocus;
end;
end;

procedure TFLogin.cxButton1Click(Sender: TObject);
begin
inputUser.Text:='admin';
inputPass.Text:='admin';
end;

end.

```

3. uUtama.pas

```

unit uUtama;

interface

uses
Windows, Messages, SysUtils, Variants, Classes, Graphics,
Controls, Forms,
Dialogs, XPMAN, Menus, ExtCtrls, Grids, DBGrids, AdvObj, BaseGrid,
AdvGrid, DBAdvGrid, ComCtrls, StdCtrls, cxGraphics, cxControls,
cxLookAndFeels, cxLookAndFeelPainters, cxContainer, cxEdit,
dxSkinsCore,
dxSkinsDefaultPainters, cxLabel, AdvPanel, dxGDIPlusClasses,
cxImage;

type
TFUtama = class(TForm)
mm1: TMainMenu;
Menu1: TMenuItem;
Login1: TMenuItem;
DataSiswal: TMenuItem;
Keluar1: TMenuItem;
xpmnfst1: TXPManifest;
DataSiswa2: TMenuItem;

```



```

Admin1: TMenuItem;
Presensi1: TMenuItem;
utup1: TMenuItem;
ransaksi1: TMenuItem;
dbdvgrd1: TDBAdvGrid;
Rekap1: TMenuItem;
stat1: TStatusBar;
tmr1: TTimer;
RekapKehadiran21: TMenuItem;
AdvPanel1: TAdvPanel;
cxLabel1: TcxLabel;
RekapSakit1: TMenuItem;
RekapIjin1: TMenuItem;
RekapAlpa1: TMenuItem;
cxImage1: TcxImage;
cxLabel2: TcxLabel;
cxLabel3: TcxLabel;
cxLabel4: TcxLabel;
cxLabel5: TcxLabel;
cxLabel6: TcxLabel;
cxLabel7: TcxLabel;
Walil: TMenuItem;
cxImage2: TcxImage;
procedure Login1Click(Sender: TObject);
procedure FormShow(Sender: TObject);
procedure DataSiswa2Click(Sender: TObject);
procedure Admin1Click(Sender: TObject);
procedure Presensi1Click(Sender: TObject);
procedure utup1Click(Sender: TObject);
procedure Keluar1Click(Sender: TObject);
procedure Rekap1Click(Sender: TObject);
procedure tmr1Timer(Sender: TObject);
procedure RekapKehadiran21Click(Sender: TObject);
procedure RekapSakit1Click(Sender: TObject);
procedure RekapIjin1Click(Sender: TObject);
procedure RekapAlpa1Click(Sender: TObject);
procedure WalilClick(Sender: TObject);
private
    { Private declarations }
public
    { Public declarations }
end;

var
    FUTama: TFUutama;

implementation

uses
    uLogin, uDataSiswa, uAdmin, uPresensi, uSeting, uRekap, DM,
    uRekap2, uRekap3,
    uRekap4, uRekap5, uwali;

{$R *.dfm}

procedure TFUutama.Login1Click(Sender: TObject);
begin
    FLogin.Show;
end;

```

```

procedure TFUtama.FormShow(Sender: TObject);
begin
    DataSiswa1.Enabled:=False;
    //Setting1.Enabled:=False;
    Keluar1.Enabled:=False;
    ransaksil.Enabled:=False;
    //Laporan1.Enabled:=False;
    stat1.Panels[0].Text:='Nama User : ~';
end;

procedure TFUtama.DataSiswa2Click(Sender: TObject);
begin
    FDataSiswa.Show;
end;

procedure TFUtama.Admin1Click(Sender: TObject);
begin
    FAdmin.Show;
end;

procedure TFUtama.Presensi1Click(Sender: TObject);
begin
    FPresensi.Show;
end;

procedure TFUtama.utup1Click(Sender: TObject);
begin
    if (Application.MessageBox('Ingin
Keluar?', '.:KONFIRMASI:.', MB_OKCANCEL+MB_ICONINFORMATION)=ID_OK)
then
        begin
            Application.Terminate;
        end;
end;

procedure TFUtama.Keluar1Click(Sender: TObject);
begin
    DataSiswa1.Enabled:=False;
    //Setting1.Enabled:=False;
    Presensi1.Enabled:=False;
    Login1.Enabled:=True;
    Keluar1.Enabled:=False;
    ransaksil.Enabled:=False;
    //Laporan1.Enabled:=False;
    utup1.Enabled:=True;
    stat1.Panels[0].Text:='Nama User : ~';
    stat1.Panels[0].Text:='~';
    //AdvPanel1.Height:=645;
end;

procedure TFUtama.Rekap1Click(Sender: TObject);
begin
    FRekap.Show;
end;

procedure TFUtama.tmr1Timer(Sender: TObject);
var
    tgl : TDateTime;

```

```

    hari : array[1..7] of string;
begin
    hari[1] := 'Minggu';
    hari[2] := 'Senin';
    hari[3] := 'Selasa';
    hari[4] := 'Rabu';
    hari[5] := 'Kamis';
    hari[6] := 'Jumat';
    hari[7] := 'Sabtu';
    tgl := Date;
    stat1.Panels[1].Text := 'Jam : ' + TimeToStr(Time);
    stat1.Panels[2].Text := 'Hari : ' + hari[Dayofweek(tgl)];
    stat1.Panels[3].Text := 'Tanggal : ' + FormatDateTime('DD MMMM
YYYY', Now);
end;

procedure TFUtama.RekapKehadiran21Click(Sender: TObject);
begin
    frmKehadiran.ShowModal;
end;

procedure TFUtama.RekapSakit1Click(Sender: TObject);
begin
    frmSakit.ShowModal;
end;

procedure TFUtama.RekapIjin1Click(Sender: TObject);
begin
    frmIjin.ShowModal;
end;

procedure TFUtama.RekapAlpha1Click(Sender: TObject);
begin
    frmAlpha.ShowModal;
end;

procedure TFUtama.Wali1Click(Sender: TObject);
begin
    frmCRUDwali.Show
end;

end.

```

4. uDaftarSiswa.pas

```

unit uDaftarSiswa;

interface

uses
    Windows, Messages, SysUtils, Variants, Classes, Graphics,
    Controls, Forms,
    Dialogs, Grids, DBGrids, cxGraphics, cxControls, cxLookAndFeels,
    cxLookAndFeelPainters, cxContainer, cxEdit, dxSkinsCore,
    dxSkinsDefaultPainters, cxTextEdit, cxMaskEdit, cxButtonEdit,
    Menus,
    StdCtrls, cxButtons, AdvObj, BaseGrid, AdvGrid, DBAdvGrid,

```

```

cxLabel;

type
  TFDaftarSiswa = class(TForm)
    siswa: TDBAdvGrid;
    Label1: TLabel;
    cxTextEdit1: TcxTextEdit;
    cxLabel1: TcxLabel;
    procedure siswaDblClick(Sender: TObject);
    procedure FormClose(Sender: TObject; var Action: TCloseAction);
    procedure cxTextEdit1PropertiesChange(Sender: TObject);
  private
    { Private declarations }
  public
    { Public declarations }
  end;

var
  FDaftarSiswa: TFDaftarSiswa;

implementation

uses
  DM, uIjin1;

{$R *.dfm}

procedure TFDaftarSiswa.siswaDblClick(Sender: TObject);
begin
  Fijin.id_siswa.Text:=DMo.zqSiswa['id_siswa'];
  //Fijin.kode_kartu.Text:=DMo.zqSiswa['kode_kartu'];
  Fijin.nama.Text:=DMo.zqSiswa['Nama_siswa'];
  Fijin.show;
  FDaftarSiswa.close;
end;

procedure TFDaftarSiswa.FormClose(Sender: TObject;
  var Action: TCloseAction);
begin
  with dmo.zqSiswa do
  begin
    Close;
    SQL.Clear;
    SQL.Text:='select * from siswa';
    Open;
  end;
end;

procedure TFDaftarSiswa.cxTextEdit1PropertiesChange(Sender:
TObject);
begin
  with dmo.zqSiswa do
  begin
    Close;
    SQL.Clear;
    SQL.Text:='select * from siswa where nama_siswa like
"%' + cxTextEdit1.Text + '%" or NISN like "%' + cxTextEdit1.Text + '%"';
    Open;
  end;
end;

```

```
end;
```

```
end.
```

5. uDataSiswa.pas

```
unit uDataSiswa;
```

```
interface
```

```
uses
```

```
  Windows, Messages, SysUtils, Variants, Classes, Graphics,  
  Controls, Forms,  
  Dialogs, StdCtrls, Buttons, ComCtrls, Grids, DBGrids, cxGraphics,  
  cxControls, cxLookAndFeels, cxLookAndFeelPainters, cxContainer,  
  cxEdit,  
  dxSkinsCore, dxSkinsDefaultPainters, Menus, cxButtons, cxMemo,  
  cxMaskEdit, cxDropDownEdit, cxCalendar, cxTextEdit, AdvObj,  
  BaseGrid,  
  AdvGrid, DBAdvGrid, cxButtonEdit, cxLabel, ExtCtrls, AdvPanel,  
  jpeg,  
  cxImage;
```

```
type
```

```
  TFDataSiswa = class(TForm)  
    grp1: TGroupBox;  
    lbl1: TLabel;  
    lbl2: TLabel;  
    lbl3: TLabel;  
    lbl4: TLabel;  
    lbl5: TLabel;  
    inputNmaSis: TcxTextEdit;  
    inputNISN: TcxTextEdit;  
    cxdtdtTTL: TcxDateEdit;  
    inputNmOrtu: TcxTextEdit;  
    cxmAlmt: TcxMemo;  
    btnAdd: TcxButton;  
    btnDel: TcxButton;  
    btnSave: TcxButton;  
    btnCancel: TcxButton;  
    btnEdit: TcxButton;  
    lbl6: TLabel;  
    inputKdKartu: TcxTextEdit;  
    dbdvgrd1: TDBAdvGrid;  
    btnCari: TcxButtonEdit;  
    cedtkelas: TcxTextEdit;  
    Label1: TLabel;  
    AdvPanel1: TAdvPanel;  
    cxLabel1: TcxLabel;  
    cedtta: TcxTextEdit;  
    Label2: TLabel;  
    cxImage1: TcxImage;  
    cxButton1: TcxButton;  
    OpenDialog1: TOpenDialog;  
    cxButton2: TcxButton;  
    procedure FormShow(Sender: TObject);  
    procedure btnHapusClick(Sender: TObject);
```

```

        procedure btnEditClick(Sender: TObject);
        procedure btnAddClick(Sender: TObject);
        procedure btnCancelClick(Sender: TObject);
        procedure btnSaveClick(Sender: TObject);
        procedure btnDelClick(Sender: TObject);
        procedure fresh;
        procedure btnCariKeyUp(Sender: TObject; var Key: Word;
            Shift: TShiftState);
        procedure FormClose(Sender: TObject; var Action: TCloseAction);
        procedure cxButton1Click(Sender: TObject);
        procedure cxButton2Click(Sender: TObject);
        procedure dbdvgrd1ClickCell(Sender: TObject; ARow, ACol:
Integer);
    private
        { Private declarations }
    public
        { Public declarations }
    end;

var
    FDataSiswa: TFDDataSiswa;

implementation

uses
    DM;

{$R *.dfm}
procedure TFDDataSiswa.fresh;
begin
    with DMO.zqSiswa do
    begin
        Close;
        SQL.Clear;
        SQL.Text:='SELECT * FROM siswa';
        Open;
        dbdvgrd1.DataSource:=DMO.dsSiswa;
    end;
end;
procedure TFDDataSiswa.FormShow(Sender: TObject);
begin
    if login_as = 'wali' then
    begin
        with DMO.zqSiswa do
        begin
            Close;
            SQL.Clear;
            SQL.Text:='select * from siswa where Kelas = '''+kelas_ses+'''';
            Open;
        end;
    end
else
    begin
        fresh;
    end;

    inputNmaSis.Enabled:=False;
    inputNISN.Enabled:=False;
    cxdtDTTL.Enabled:=False;

```

```

inputNmOrtu.Enabled:=False;
inputKdKartu.Enabled:=False;
cedtkelas.enabled:=false;
cedtta.Enabled:=false;
cxmAlmt.Enabled:=False;
btnDel.Enabled:=False;
btnSave.Enabled:=False;
cxButton1.Enabled:=false;
end;

procedure TFDDataSiswa.btnHapusClick(Sender: TObject);
begin
if (MessageDlg('Hapus data?',mtConfirmation,[mbYes,mbNo],0)=mrYes)
then
begin
DMo.zqSiswa.Delete;
MessageDlg('Data Siswa Telah Dihapus.',mtInformation,[mbOK],0);
inputNmaSis.Text:='';
inputNISN.Text:='';
cxddtTTL.Date:=Now;
inputNmOrtu.Text:='';
cxmAlmt.Lines.Text:='';
fresh;
end;
end;

procedure TFDDataSiswa.btnEditClick(Sender: TObject);
var
fotofile:string;
begin
inputNmaSis.Text:=DMo.zqSiswa.FieldByName('Nama_siswa').AsString;
inputNISN.Text:=DMo.zqSiswa.FieldByName('NISN').AsString;
cxddtTTL.Date:=DMo.zqSiswa.FieldByName('Tanggal_lahir').AsDateTime;
inputNmOrtu.Text:=DMo.zqSiswa.FieldByName('Nama_orangtua').AsString;
cxmAlmt.Text:=DMo.zqSiswa.FieldByName('alamat').AsString;
inputKdKartu.Text:=DMo.zqSiswa.FieldByName('kode_kartu').AsString;
cedtkelas.Text:=DMo.zqSiswa.FieldByName('kelas').AsString;
cedtta.Text:=DMo.zqSiswa.FieldByName('angkatan').AsString;

//foto
fotofile:=extractfilepath(Application.ExeName)+'photo/'+inputNISN.Te
xt+'.jpg';
if fileexists(fotofile) then
begin
cxImage1.Picture.LoadFromFile(fotofile);
end;

inputNmaSis.Enabled:=True;
cedtkelas.Enabled:=True;
inputNISN.Enabled:=True;
cxddtTTL.Enabled:=True;
inputNmOrtu.Enabled:=True;
cedtta.Enabled:=True;
cxmAlmt.Enabled:=True;
inputKdKartu.Enabled:=True;
btnDel.Enabled:=True;
btnSave.Enabled:=True;
cxButton1.Enabled:=True;
end;

```

```

procedure TFDataSiswa.btnAddClick(Sender: TObject);
begin
inputNmaSis.Enabled:=True;
inputNISN.Enabled:=True;
cedtkelas.Enabled:=True;
cxdttdtTTL.Enabled:=True;
inputNmOrtu.Enabled:=True;
cedtta.Enabled:=True;
cxmAlmt.Enabled:=True;
inputKdKartu.Enabled:=True;
btnSave.Enabled:=True;
cxButton1.Enabled:=True;
btnAdd.Enabled:=False;
btnDel.Enabled:=True;
end;

procedure TFDataSiswa.btnCancelClick(Sender: TObject);
begin
inputNmaSis.Text:='';
inputNISN.Text:='';
cxdttdtTTL.Date:=Now;
inputNmOrtu.Text:='';
cxmAlmt.Lines.Text:='';
inputKdKartu.Text:='';
cedtkelas.Text:='';
cedtta.Text:='';
inputNmaSis.Enabled:=False;
inputNISN.Enabled:=False;
cxdttdtTTL.Enabled:=False;
inputNmOrtu.Enabled:=False;
cedtta.Enabled:=false;
cxmAlmt.Enabled:=False;
inputKdKartu.Enabled:=False;
btnAdd.Enabled:=True;
btnDel.Enabled:=False;
btnSave.Enabled:=False;
cxButton1.Enabled:=False;
cedtkelas.Enabled:=false;
FDataSiswa.Close;
end;

procedure TFDataSiswa.btnSaveClick(Sender: TObject);
var
    destination_file,source_file:string;
begin
if inputNmaSis.Text='' then
begin
    MessageDlg('Nama Siswa Masih Kosong !', mtWarning, [mbOK], 0);
    inputNmaSis.SetFocus;
end
else if inputNISN.Text='' then
begin
    MessageDlg('NISN masih kosong !', mtWarning, [mbOK], 0);
    inputNISN.SetFocus;
end
else if cxdttdtTTL.Date=Now then
begin
    MessageDlg('Tanggal Lahir belum dipilih !', mtWarning, [mbOK],

```



```

0);
    cxddtdtTTL.SetFocus;
end
else if inputNmOrtu.Text='' then
begin
    MessageDlg('Nama Orangtua masih kosong !', mtWarning, [mbOK],
0);
    inputNmOrtu.SetFocus;
end
else if cedtkelas.Text='' then
begin
    MessageDlg('Kelas masih kosong !', mtWarning, [mbOK], 0);
    cedtkelas.SetFocus;
end
else if cedtta.Text='' then
begin
    MessageDlg('Angkatan kosong !', mtWarning, [mbOK], 0);
    cedtta.SetFocus;
end
else if cxmAlmt.Lines.Text='' then
begin
    MessageDlg('Alamat masih kosong !', mtWarning, [mbOK], 0);
    cxmAlmt.SetFocus;
end
else
begin
    with DMO.zqSiswa do
    begin
        Close;
        SQL.Clear;
        SQL.Text:='SELECT * FROM siswa WHERE NISN='+
QuotedStr(inputNISN.Text)+'AND kode_kartu='+
QuotedStr(inputKdKartu.Text);
        Open;
    end;
    if DMO.zqSiswa.RecordCount=0 then
    begin
        if (MessageDlg('Simpan
data?',mtConfirmation,[mbYes,mbNo],0)=mrYes) then
        begin
            DMO.zqSiswa.Insert;

DMO.zqSiswa.FieldName('Nama_siswa').AsString:=inputNmaSis.Text;

DMO.zqSiswa.FieldName('NISN').AsString:=inputNISN.Text;

DMO.zqSiswa.FieldName('Tanggal_lahir').AsDateTime:=cxddtdtTTL.Date;

DMO.zqSiswa.FieldName('Nama_orangtua').AsString:=inputNmOrtu.Text;

DMO.zqSiswa.FieldName('alamat').AsString:=cxmAlmt.Text;

DMO.zqSiswa.FieldName('kode_kartu').AsString:=inputKdKartu.Text;

DMO.zqSiswa.FieldName('kelas').AsString:=cedtkelas.Text;

DMO.zqSiswa.FieldName('angkatan').AsInteger:=StrToInt(cedtta.Text)
;

            DMO.zqSiswa.Post;

```

```

        //<!--FOTO FOTO-->
        if OpenFileDialog1.FileName <> '' then
            source_file:=OpenDialog1.FileName
        else

source_file:=extractfilepath(Application.ExeName)+'no_pic.jpg';

destination_file:=extractfilepath(Application.ExeName)+'photo\' +inputNISN.Text+'.jpg';
        CopyFile(PChar(source_file), PChar(destination_file),
true);

        cxButton2Click(nil);
        //<!--FOTO FOTO-->
        MessageDlg('Data Siswa
'+dmo.zqSiswa.FieldValues['NISN'] +'Telah
Tersimpan.',mtInformation,[mbOK],0);
        inputNmaSis.Text:='';
        inputNISN.Text:='';
        cxdtTTL.Date:=Now;
        inputNmOrtu.Text:='';
        cxmAlmt.Lines.Text:='';
        inputKdKartu.Text:='';
        OpenFileDialog1.FileName:='';
        fresh;
    end;
end
else
begin
    if (MessageDlg('Yakin
ubah?',mtConfirmation,[mbYes,mbNo],0)=mrYes) then
        begin
            DMO.zqSiswa.Edit;

DMO.zqSiswa.FieldByName('Nama_siswa').AsString:=inputNmaSis.Text;

DMO.zqSiswa.FieldByName('NISN').AsString:=inputNISN.Text;

DMO.zqSiswa.FieldByName('Tanggal_lahir').AsDateTime:=cxdtTTL.Date;

DMO.zqSiswa.FieldByName('Nama_orangtua').AsString:=inputNmOrtu.Text;

DMO.zqSiswa.FieldByName('alamat').AsString:=cxmAlmt.Text;

DMO.zqSiswa.FieldByName('kode_kartu').AsString:=inputKdKartu.Text;

DMO.zqSiswa.FieldByName('kelas').AsString:=cedtkelas.Text;

DMO.zqSiswa.FieldByName('angkatan').AsInteger:=StrToInt(cedtta.Text)
;
            DMO.zqSiswa.Post;
            //<!--FOTO FOTO-->
            if OpenFileDialog1.FileName <> '' then
                begin
                    source_file:=OpenDialog1.FileName;

destination_file:=extractfilepath(Application.ExeName)+'photo\' +inputNISN.Text+'.jpg';
                    deletefile(destination_file);
                    CopyFile(PChar(source_file),

```

```

PChar(destination_file), false);
    end;
    cxButton2Click(nil);
    //<!--FOTO FOTO-->

    MessageDlg('Data Siswa
'+dmo.zqSiswa.FieldValues['NISN'] +'Telah Di
ubah.',mtInformation,[mbOK],0);
    inputNmaSis.Text:='';
    inputNISN.Text:='';
    cxdtTTL.Date:=Now;
    inputNmOrtu.Text:='';
    cxmAlmt.Lines.Text:='';
    inputKdKartu.Text:='';
    cedtkelas.Text:='';
    fresh;
    OpenFileDialog1.FileName:='';
    end;
end;
end;
end;

procedure TFDDataSiswa.btnDelClick(Sender: TObject);
begin
if (MessageDlg('Yakin hapus?',mtConfirmation,[mbYes,mbNo],0)=mrYes)
then
    begin
        try
            DMO.zqSiswa.Delete;
            MessageDlg('Data telah dihapus.',mtInformation,[mbok],0);
            fresh;
        except
            MessageDlg('Data gagal dihapus',mtError,[mbOK],0);
            Exit;
        end;
    end;
end;

procedure TFDDataSiswa.btnCariKeyUp(Sender: TObject; var Key: Word;
Shift: TShiftState);
begin
    with DMO.zqSiswa do
        begin
            Close;
            SQL.Clear;
            SQL.Text:='SELECT * FROM siswa WHERE nama_siswa LIKE '+
QuotedStr('%'+btnCari.Text+'%') +' LIMIT 10';
            Open;
        end;
    end;
end;

procedure TFDDataSiswa.FormClose(Sender: TObject; var Action:
TCloseAction);
begin
inputNmaSis.Text:='';
inputNISN.Text:='';
cxdtTTL.Date:=Now;
inputNmOrtu.Text:='';
cedtta.Text:='';

```

```

cxmAlmt.Lines.Text:='';
inputKdKartu.Text:='';
inputNmaSis.Enabled:=False;
inputNISN.Enabled:=False;
cxdttdtTTL.Enabled:=False;
inputNmOrtu.Enabled:=False;
cedtta.Enabled:=false;
cxmAlmt.Enabled:=False;
inputKdKartu.Enabled:=False;
btnAdd.Enabled:=True;
btnDel.Enabled:=False;
btnSave.Enabled:=False;
cxButton1.Enabled:=false;
end;

procedure TFDataSiswa.cxButton1Click(Sender: TObject);
begin
OpenDialog1.Execute;
if OpenDialog1.FileName <> '' then
begin
cxImage1.Picture.LoadFromFile(OpenDialog1.FileName);
end;
end;

procedure TFDataSiswa.cxButton2Click(Sender: TObject);
begin
OpenDialog1.FileName:=extractfilepath(Application.ExeName)+'no_pic.j
pg';
cxImage1.Picture.LoadFromFile(extractfilepath(Application.ExeName)+'
no_pic.jpg');
end;

procedure TFDataSiswa.dbdvgrd1ClickCell(Sender: TObject; ARow,
ACol: Integer);
begin
btnEditClick(nil);
end;

end.

```

6. uAdmin.pas

```

unit uAdmin;

interface

uses
  Windows, Messages, SysUtils, Variants, Classes, Graphics,
  Controls, Forms,
  Dialogs, StdCtrls, Buttons, Grids, DBGrids, AdvObj, BaseGrid,
  AdvGrid,
  DBAdvGrid, cxGraphics, cxControls, cxLookAndFeels,
  cxLookAndFeelPainters,
  cxContainer, cxEdit, dxSkinsCore, dxSkinsDefaultPainters,
  cxTextEdit,
  Menus, cxButtons, cxMaskEdit, cxButtonEdit, DB,
  ZAbstractRODataset,

```

```

ZAbstractDataset, ZDataset, cxLabel, ExtCtrls, AdvPanel;

type
  TFAdmin = class(TForm)
    grp1: TGroupBox;
    lbl1: TLabel;
    lbl2: TLabel;
    inputUser: TcxTextEdit;
    inputPass: TcxTextEdit;
    btnTmbh: TcxButton;
    btnHps: TcxButton;
    btnSimpan: TcxButton;
    btnCancel: TcxButton;
    btnEdit: TcxButton;
    dbdvgrd1: TDBAdvGrid;
    AdvPanel1: TAdvPanel;
    cxLabel1: TcxLabel;
    procedure FormShow(Sender: TObject);
    procedure edtUsernameKeyPress(Sender: TObject; var Key: Char);
    procedure edtPassKeyPress(Sender: TObject; var Key: Char);
    procedure admin;
    procedure btnHpsClick(Sender: TObject);
    procedure btnSimpanClick(Sender: TObject);
    procedure btnCancelClick(Sender: TObject);
    procedure btnEditClick(Sender: TObject);
    procedure btnTmbhClick(Sender: TObject);
    procedure FormClose(Sender: TObject; var Action: TCloseAction);
  private
    { Private declarations }
  public
    { Public declarations }
  end;

var
  FAdmin: TFAdmin;

implementation

uses
  DM;

{$R *.dfm}

procedure TFAdmin.admin;
begin
  with DMO.zqAdmin do
    begin
      Close;
      SQL.Clear;
      SQL.Text:='SELECT * FROM admin';
      Open;
    end;
end;

procedure TFAdmin.FormShow(Sender: TObject);
begin
  inputUser.Enabled:=False;
  inputPass.Enabled:=False;
  btnSimpan.Enabled:=False;
  btnHps.Enabled:=False;

```

```

admin;
end;

procedure TFAdmin.edtUsernameKeyPress(Sender: TObject; var Key:
Char);
begin
if Key=#13 then
begin
inputPass.SetFocus;
end;
end;

procedure TFAdmin.edtPassKeyPress(Sender: TObject; var Key: Char);
begin
if Key=#13 then
begin
btnEdit.SetFocus;
end;
end;

procedure TFAdmin.btnHpsClick(Sender: TObject);
begin
if (MessageDlg('Yakin hapus?',mtConfirmation,[mbYes,mbNo],0)=mrYes)
then
begin
with DMO.zqAdmin do
begin
try
DMO.zqAdmin.Delete;
MessageDlg('Data Telah Dihapus.',mtInformation,[mbOK],0);
admin;
except
MessageDlg('Data Admin dengan Nama
'+DMO.zqAdmin.FieldName('username').AsString +'Gagal
Dihapus.',mtInformation,[mbOK],0);
inputUser.SetFocus;
end;
end;
end;
end;

procedure TFAdmin.btnSimpanClick(Sender: TObject);
begin
if inputUser.Text='' then
begin
MessageDlg('Username Masih Kosong !', mtWarning, [mbOK], 0);
inputUser.SetFocus;
end
else if inputPass.Text='' then
begin
MessageDlg('Password Masih Kosong !', mtWarning, [mbOK], 0);;
inputPass.SetFocus;
end
else
with DMO.zqAdmin do
begin
Close;
SQL.Clear;
SQL.Text:='SELECT * FROM admin WHERE username='+

```

```

QuotedStr(inputUser.Text);
    Open;
end;
if DMO.zqAdmin.IsEmpty then
begin
    if (Application.MessageBox('Apakah Anda ingin menyimpan data
ini?', '..:KONFIRMASI:..', MB_OKCANCEL+MB_ICONQUESTION)=ID_OK) then
        begin
            try
                DMO.zqAdmin.Append;

DMO.zqAdmin.FieldName('username').AsString:=inputUser.Text;

DMO.zqAdmin.FieldName('password').AsString:=inputPass.Text;
                DMO.zqAdmin.Post;
                MessageDlg('Data Admin dengan Nama
'+DMO.zqAdmin.FieldValues['username'] +'Telah
Tersimpan.', mtInformation, [mbOK], 0);
                inputUser.Text:='';
                inputPass.Text:='';
                admin;
            except
                MessageDlg('Data Admin dengan Nama '+ inputUser.Text
+'Gagal disimpan.', mtError, [mbOK], 0);
                inputUser.SetFocus;
            end;
        end;
    end
else
begin
    try
        MessageDlg('Yakin Ubah?', mtConfirmation, [mbYes, mbNo], 0);
        DMO.zqAdmin.Edit;

DMO.zqAdmin.FieldName('username').AsString:=inputUser.Text;

DMO.zqAdmin.FieldName('password').AsString:=inputPass.Text;
        DMO.zqAdmin.Post;
        MessageDlg('Data Admin dengan Nama
'+DMO.zqAdmin.FieldValues['username'] +'Telah
Tersimpan.', mtInformation, [mbOK], 0);
        inputUser.Text:='';
        inputPass.Text:='';
        admin;
    except
        MessageDlg('Data Admin dengan Nama '+ inputUser.Text +'Gagal
disimpan.', mtError, [mbOK], 0);
        inputUser.SetFocus;
    end;
end;
end;

procedure TFAdmin.btnCancelClick(Sender: TObject);
begin
inputUser.Text:='';
inputPass.Text:='';
btnSimpan.Enabled:=False;
btnHps.Enabled:=False;
FAdmin.Close;

```

```

end;

procedure TFAdmin.btnEditClick(Sender: TObject);
begin
inputUser.Enabled:=True;
inputPass.Enabled:=True;
btnSimpan.Enabled:=True;
btnHps.Enabled:=True;
inputUser.Text:=DMo.zqAdmin.fieldbyname('username').AsString;
inputPass.Text:=DMo.zqAdmin.fieldbyname('password').AsString;
end;

procedure TFAdmin.btnTmbhClick(Sender: TObject);
begin
inputUser.Enabled:=True;
inputPass.Enabled:=True;
btnSimpan.Enabled:=True;
btnHps.Enabled:=True;
end;

procedure TFAdmin.FormClose(Sender: TObject; var Action:
TCloseAction);
begin
inputUser.Text:='';
inputPass.Text:='';
btnSimpan.Enabled:=False;
btnHps.Enabled:=False;
end;

end.

```

7. uWali.pas

```

unit uwali;

interface

uses

Windows, Messages, SysUtils, Variants, Classes, Graphics, Controls,
Forms,DBGrids,
DB, ZAbstractRODataset, ZAbstractDataset, ZDataset, StdCtrls,
ComCtrls,Dialogs, Grids,DBCtrls,
    cxGraphics, cxControls, cxLookAndFeels, cxLookAndFeelPainters,
    cxContainer, cxEdit, dxSkinsCore, dxSkinsDefaultPainters, cxLabel,
    ExtCtrls, AdvPanel, Menus, cxButtons, AdvObj, BaseGrid, AdvGrid,
    DBAdvGrid, cxMaskEdit, cxDropDownEdit, cxTextEdit;

type
TfrmCRUDwali = class(TForm)
Label1: TLabel;
Label2: TLabel;
    AdvPanel1: TAdvPanel;
    cxLabel1: TcxLabel;
    btnAdd: TcxButton;
    btnEdit: TcxButton;
    btnSave: TcxButton;

```



```

    btnCancel: TcxButton;
    btnDel: TcxButton;
    DBAdvGrid1: TDBAdvGrid;
    inputwali_kelas: TcxTextEdit;
    inputkelas: TcxComboBox;
    Label3: TLabel;
    Label4: TLabel;
    cedtuser: TcxTextEdit;
    cedtpass: TcxTextEdit;
procedure FormCreate(Sender: TObject);
procedure Button2Click(Sender: TObject);
procedure Editable(flag:boolean);
    procedure btnAddClick(Sender: TObject);
    procedure btnEditClick(Sender: TObject);
    procedure btnSaveClick(Sender: TObject);
    procedure btnCancelClick(Sender: TObject);
    procedure btnDelClick(Sender: TObject);
    procedure FormShow(Sender: TObject);
private
{Private declarations}
public
{Public declarations}
end;

var
frmCRUDwali:TfrmCRUDwali;
flag:string;

implementation

uses  DM;
{$R *.dfm}

procedure TfrmCRUDwali.FormCreate(Sender: TObject);
begin
editable(false)
end;

procedure TfrmCRUDwali.Button2Click(Sender: TObject);
begin;

end;

procedure TfrmCRUDwali.Editable(flag: Boolean);
begin
inputwali_kelas.Enabled:=flag;
inputkelas.Enabled:=flag;
cedtuser.Enabled:=flag;
cedtpass.Enabled:=flag;
btnAdd.Enabled:=not flag;
btnEdit.Enabled:=not flag;
btnSave.Enabled:=flag;
btnDel.Enabled:=not flag;
btnCancel.Enabled:=flag;
end;

procedure TfrmCRUDwali.btnAddClick(Sender: TObject);
begin
//agar form bisa diedit

```

```

Editable(true);
//tentukan flag=tambah, untuk tombol simpan agar bisa membedakan
tambah/edit
flag:='tambah';
end;

procedure TfrmCRUDwali.btnEditClick(Sender: TObject);
begin
Editable(true);
//tentukan flag=edit, untuk tombol simpan agar bisa membedakan
tambah/edit
flag:='edit';
inputwali_kelas.Text:=dmo.zqwali.fieldByName('wali_kelas').asString;
inputkelas.Text:=dmo.zqwali.fieldByName('kelas').asString;
cedtuser.Text:=dmo.zqwali.fieldByName('user_wali').asString;
cedtpass.Text:=dmo.zqwali.fieldByName('pass_wali').asString;
end;

procedure TfrmCRUDwali.btnSaveClick(Sender: TObject);
begin
Editable(false);
//ini tambah atau edit,bedakan actionnya
if flag='tambah' then
dmo.zqwali.Insert
else
dmo.zqwali.Edit;
dmo.zqwali.fieldByName('wali_kelas').asString:=inputwali_kelas.Text;
dmo.zqwali.fieldByName('kelas').asString:=inputkelas.Text;
dmo.zqwali.fieldByName('user_wali').asString:=cedtuser.Text;
dmo.zqwali.FieldByName('pass_wali').AsString:=cedtpass.Text;
dmo.zqwali.Post;
flag:='';
end;

procedure TfrmCRUDwali.btnCancelClick(Sender: TObject);
begin
dmo.zqwali.Cancel;
Editable(false);
end;

procedure TfrmCRUDwali.btnDelClick(Sender: TObject);
begin
//konfirmasi sebelum menghapus
if (MessageDlg('Yakin hapus?', mtConfirmation, [mbYes, mbNo], 0) =
mrYes) then
dmo.zqwali.Delete;
end;

procedure TfrmCRUDwali.FormShow(Sender: TObject);
begin
inputkelas.Properties.Items.Clear;
with DMO.zqpublic do
begin
Close;
SQL.Clear;
SQL.Text:='SELECT DISTINCT(kelas) FROM siswa';
Open;
end;
while not DMO.zqpublic.Eof do

```

```

begin
    inputkelas.Properties.Items.Add(DMo.zqpublic['Kelas']);
    DMo.zqpublic.Next;
end;
inputkelas.ItemIndex:=0;
end;

end.

```

8. uPresensi.pas

```

unit uPresensi;

interface

uses
    Windows, Messages, SysUtils, Variants, Classes, Graphics,
    Controls, Forms,
    Dialogs, StdCtrls, Grids, DBGrids, cxGraphics, cxControls,
    cxLookAndFeels, cxLookAndFeelPainters, cxContainer, cxEdit,
    dxSkinsCore,
    dxSkinsDefaultPainters, cxTextEdit, DB, ZAbstractRODataset,
    ZAbstractDataset, ZDataset, cxMemo, AdvObj, BaseGrid, AdvGrid,
    DBAdvGrid,
    ComCtrls, Menus, cxButtons, cxLabel, ExtCtrls, AdvPanel,
    cxMaskEdit,
    cxDropDownEdit, frxClass, frxDBSet;

type
    TFPresensi = class(TForm)
        lbl1: TLabel;
        inputID: TcxTextEdit;
        inputtgl: TcxTextEdit;
        inputjam1: TcxTextEdit;
        inputStatus: TcxTextEdit;
        zqPresensi: TZQuery;
        dsPresensi: TDataSource;
        inputKode: TcxTextEdit;
        zqPublic: TZQuery;
        dsPublic: TDataSource;
        dtp1: TDateTimePicker;
        IJIN: TcxButton;
        zqabs: TZQuery;
        dsabs: TDataSource;
        DBAdvGrid1: TDBAdvGrid;
        AdvPanel1: TAdvPanel;
        cxLabel1: TcxLabel;
        cxComboBox1: TcxComboBox;
        Label1: TLabel;
        btnShow: TcxButton;
        cxButton1: TcxButton;
        frxDBDataset1: TfrxDBDataset;
        frxReport1: TfrxReport;
        procedure absen;
        procedure FormShow(Sender: TObject);
        procedure inputKodeKeyUp(Sender: TObject; var Key: Word;
            Shift: TShiftState);
    end;

```

```

        procedure FormActivate(Sender: TObject);
        procedure IJINClick(Sender: TObject);
        procedure btnShowClick(Sender: TObject);
        procedure cxButton1Click(Sender: TObject);
    private
        { Private declarations }
    public
        { Public declarations }
    end;

var
    FPresensi: TFPresensi;

implementation

uses
    DM, uIjin1;

{$R *.dfm}

procedure TFPresensi.absen;
var
    qkelas:String;
begin
    with dmo.zqAbsen do
        begin
            Close;
            SQL.Clear;
            SQL.Text:='SELECT * FROM kehadiran ORDER BY tanggal DESC';
            Open;
        end;
    with zqabs do
        begin
            if login_as = 'wali' then
                qkelas:=' and Kelas = "' + kelas_ses + '"'
            else
                qkelas:='';

            Close;
            SQL.Clear;
            SQL.Text:='SELECT * FROM kehadiran '
            + ' INNER JOIN siswa ON kehadiran.`id_siswa` = siswa.`id_siswa` '
            + ' WHERE DATE(tanggal) = DATE(NOW()) '
            + qkelas
            + ' ORDER BY tanggal DESC ';
            Open;
        end;
    end;

procedure TFPresensi.FormShow(Sender: TObject);
begin
    cxComboBox1.Properties.Items.Clear;
    with DMO.zqpublic do
        begin
            Close;
            SQL.Clear;
            SQL.Text:='SELECT DISTINCT(kelas) FROM siswa';
            Open;
        end;
end;

```

```

while not DMo.zqpublic.Eof do
begin
    cxComboBox1.Properties.Items.Add(DMo.zqpublic['Kelas']);
    DMo.zqpublic.Next;
end;
cxComboBox1.ItemIndex:=0;

if login_as = 'wali' then
begin
    label1.Visible:=False;
    cxComboBox1.Visible:=false;
    btnShow.Visible:=false;
end
else
begin
    label1.Visible:=true;
    cxComboBox1.Visible:=true;
    btnShow.Visible:=true;
end;

inputKode.SetFocus;
absen;
end;

procedure TFPresensi.inputKodeKeyUp(Sender: TObject; var Key: Word;
    Shift: TShiftState);
var
    jam1, jam2: TDateTime;
    masuk: string;

begin
    //menentukan status datang
    //inputtgl.Text:=FormatDateTime('yyyy/mm/dd',Now);
    dtp1.Date:=Now;
    inputjam1.Text:=TimeToStr(Now);
    jam1:=StrToTime(inputjam1.Text);
    masuk:='07:00:00';
    jam2:=StrToTime(masuk);
    if jam1<=jam2 then
        begin
            inputStatus.Text:='TEPAT WAKTU';
        end
    else
        begin
            inputStatus.Text:='TERLAMBAT';
        end;

    if inputKode.Text='' then
        begin
            inputKode.SetFocus;
            Exit;
        end
    else
        begin
            with zqPresensi do
            begin
                Close;
                SQL.Clear;
                SQL.Text:='SELECT id siswa FROM siswa WHERE

```

```

kode_kartu='+QuotedStr(inputKode.Text);
    Open;
end;
    if zqPresensi.RecordCount=1 then
    begin
        inputID.Text:=zqPresensi.FieldName('id_siswa').AsString;
        with dmo.zqAbsen do
        begin
            Close;
            SQL.Clear;
            SQL.Text:='SELECT * FROM kehadiran WHERE id_siswa = '+
QuotedStr(inputID.Text)+'AND DATE(tanggal)=' +
QuotedStr(FormatDateTime('yyyy-mm-dd', dtp1.Date));
            Open;
        end;
        if dmo.zqAbsen.IsEmpty then
        begin
            dmo.zqAbsen.Insert;

dmo.zqAbsen.FieldName('id_siswa').AsString:=inputID.Text;

dmo.zqAbsen.FieldName('tanggal').AsDateTime:=dtp1.Date;

dmo.zqAbsen.FieldName('jam_hadir').AsDateTime:=StrToTime(inputjam1
.Text);

dmo.zqAbsen.FieldName('status').AsString:=inputStatus.Text;
            dmo.zqAbsen.Post;
            //absen;
            inputID.Text:='';
            inputtgl.Text:='';
            inputjam1.Text:='';
            inputStatus.Text:='';
            inputKode.Text:='';

            with dmo.zqAbsen do
            begin
                Close;
                sql.Clear;
                sql.Text:='SELECT * FROM kehadiran ORDER BY
tanggal DESC';
                open;
            end;
            zqabs.Refresh;
            Exit;
        end
    else
    begin
        MessageDlg('ID Siswa '+inputID.Text+' : Sudah
Absen.',mtWarning,[mbOK],0);
        //absen;
        with dmo.zqAbsen do
        begin
            Close;
            sql.Clear;
            sql.Text:='SELECT * FROM kehadiran ORDER BY
tanggal DESC';
            open;
        end;
    end;
end;

```

```

        inputID.Text:='';
        inputtgl.Text:='';
        inputjam1.Text:='';
        inputStatus.Text:='';
        inputKode.Text:='';
        Exit;
    end;
end;
end;
end;
procedure TFPresensi.FormActivate(Sender: TObject);
begin
    DMo.zqAbsen.Refresh;
    zqabs.Refresh;
end;

procedure TFPresensi.IJINClick(Sender: TObject);
begin
    Fijin.show;
end;

procedure TFPresensi.btnShowClick(Sender: TObject);
var
    kq:String;
begin
    kq:=' AND kelas = ''+cxComboBox1.Text+''';
    with zqabs do
        begin
            Close;
            SQL.Clear;
            SQL.Text:='SELECT * FROM kehadiran '
            +' INNER JOIN siswa ON kehadiran.`id_siswa` = siswa.`id_siswa` '
            +' WHERE DATE(tanggal) = DATE(NOW()) '
            +kq
            +' ORDER BY tanggal DESC';
            Open;
        end;
    end;

procedure TFPresensi.cxButton1Click(Sender: TObject);
var
    AK: TfrxMemoView;
    wali:String;
begin
    with dmo.zqpublic do
        begin
            Close;
            SQL.clear;
            SQL.Text:='select * from wali where kelas = ''+kelas_ses+''';
            Open;
        end;
    if dmo.zqpublic.recordcount > 0 then
        begin
            wali:=dmo.zqpublic['wali_kelas'];
        end;

    AK:=TfrxMemoView(frxReport1.FindComponent('Memo21'));
    AK.Text:=wali;

```

```

frxReport1.PrepareReport();
frxReport1.ShowReport();
end;

end.

```

9. uljin1.pas

```

unit uIjin1;

interface

uses
  Windows, Messages, SysUtils, Variants, Classes, Graphics,
  Controls, Forms,
  Dialogs, cxGraphics, cxControls, cxLookAndFeels,
  cxLookAndFeelPainters,
  cxContainer, cxEdit, dxSkinsCore, dxSkinsDefaultPainters, Menus,
  StdCtrls, cxButtons, cxDropDownEdit, cxCheckComboBox, cxMaskEdit,
  cxCalendar, cxTextEdit, cxLabel, cxButtonEdit;

type
  TFijin = class(TForm)
    cxlblNama: TcxLabel;
    tgl: TcxLabel;
    status: TcxLabel;
    tgl1: TcxDateEdit;
    IJIN: TcxButton;
    id_siswa: TEdit;
    status1: TcxComboBox;
    nama: TcxButtonEdit;
    procedure IJINClick(Sender: TObject);
    procedure FormCreate(Sender: TObject);
    procedure namaPropertiesButtonClick(Sender: TObject;
      AButtonIndex: Integer);
  private
    { Private declarations }
  public
    { Public declarations }
  end;

var
  Fijin: TFijin;

implementation

uses uDaftarSiswa, DateUtils, DM, uPresensi, Math;

{$R *.dfm}

procedure TFijin.IJINClick(Sender: TObject);
begin
  if nama.Text = '' then begin ShowMessage('nama masih kosong');
  nama.SetFocus; end else
  if tgl1.Text = '' then begin ShowMessage('tanggal masih kosong');
  tgl1.SetFocus; end else

```



```

if status1.Text = '--pilih status--' then begin ShowMessage('tanggal
masih kosong'); tgl1.SetFocus; end else

begin
    with DMo.zqAbsen do
        begin
            DMo.zqAbsen.Insert;

DMo.zqAbsen.FieldName('id_siswa').AsInteger:=strtoint(id_siswa.Text);
            DMo.zqAbsen.FieldName('tanggal').AsDateTime:=tgl1.Date;
            DMo.zqAbsen.FieldName('status').AsString:=status1.Text;
            DMo.zqAbsen.Post;
        end;
        id_siswa.Text:='';
        nama.Text:='';
        tgl1.Text:='';
        FPresensi.Show;
        Fijin.Close;
    end;
end;

procedure TFijin.FormCreate(Sender: TObject);
begin
    tgl1.Date:=Now;
end;

procedure TFijin.namaPropertiesButtonClick(Sender: TObject;
    AButtonIndex: Integer);
begin
    FDaftarSiswa.show;
end;

end.

```

10. uRekap.pas

```

unit uRekap;

interface

uses
    Windows, Messages, SysUtils, Variants, Classes, Graphics,
    Controls, Forms,
    Dialogs, ComCtrls, StdCtrls, Grids, DBGrids, dxPrnDev,
    dxPrnDlg,
    dxPSGlbl, dxPSUtl, dxPrnPg, dxBkgnd, dxWrap, dxPgsDlg,
    cxGraphics,
    cxLookAndFeels, cxLookAndFeelPainters, Menus, cxButtons,
    AdvObj,
    BaseGrid, AdvGrid, DBAdvGrid, cxControls, cxContainer,
    cxEdit,
    dxSkinsCore, dxSkinsDefaultPainters, cxTextEdit, cxMaskEdit,
    cxDropDownEdit, cxCalendar, cxCheckBox, QExport4,
    QExport4Xlsx, DB,

```

```

ZAbstractRODataset, ZAbstractDataset, ZDataset, QExport4PDF,
asgprint,
DBGridEhGrouping, ToolCtrlsEh, DBGridEhToolCtrls, PrnDbgeh,
GridsEh,
DBAxisGridsEh, DBGridEh, frxClass, frxDBSet, frxExportPDF,
cxLabel,
ExtCtrls, AdvPanel, cxButtonEdit;

```

```

type

```

```

TForm = class(TForm)
    dxprntdlgRekap: TdxPrintDialog;
    dbdvgrd1: TDBAdvGrid;
    btnShow: TcxButton;
    btnRekap: TcxButton;
    lbl1: TLabel;
    btn1: TcxButton;
    qxprt4xlsx1: TQExport4Xlsx;
    dlgSave1: TSaveDialog;
    dbgrd1: TDBGrid;
    zqRekap: TZQuery;
    dsRekap: TDataSource;
    dtp1: TDateTimePicker;
    dtp2: TDateTimePicker;
    lbl2: TLabel;
    sakit: TcxTextEdit;
    prosentase: TZQuery;
    alpha: TcxTextEdit;
    ijin: TcxTextEdit;
    jumlah: TcxTextEdit;
    qxprt4pdf1: TQExport4PDF;
    PDF: TcxButton;
    dlgSave2: TSaveDialog;
    AdvGridPrintSettingsDialog1: TAdvGridPrintSettingsDialog;
    cxComboBox1: TcxComboBox;
    Label1: TLabel;
    DBGridEh1: TDBGridEh;
    PrintDBGridEh1: TPrintDBGridEh;
    zqRekapid_kehadiran: TIntegerField;
    zqRekapNama_siswa: TStringField;
    zqRekaptanggal: TDateField;
    zqRekapstatus: TStringField;
    zqRekapkelas: TStringField;
    Edit1: TEdit;
    frxPDFExport1: TfrxPDFExport;
    frxReport1: TfrxReport;
    frxDBDataset1: TfrxDBDataset;
    cxButton1: TcxButton;
    cxButton2: TcxButton;
    cxComboBox2: TcxComboBox;
    cxLabel1: TcxLabel;
    zqRekapNISN: TStringField;
    AdvPanel1: TAdvPanel;
    cxLabel2: TcxLabel;

```

```

        cxButtonEdit1: TcxButtonEdit;
        zqnr: TZQuery;
        dsnr: TDataSource;
        procedure absen;
        procedure btnRekapClick(Sender: TObject);
        procedure btnShowClick(Sender: TObject);
        procedure btn1Click(Sender: TObject);
        procedure PDFClick(Sender: TObject);
        procedure FormShow(Sender: TObject);
        procedure dbgrd1DrawColumnCell(Sender: TObject; const
Rect: TRect;
        DataCol: Integer; Column: TColumn; State:
TGridDrawState);
        procedure cxButton1Click(Sender: TObject);
        procedure cxButton2Click(Sender: TObject);
        procedure cxButtonEdit1PropertiesChange(Sender: TObject);
    private
        { Private declarations }
    public
        { Public declarations }
    end;

var
    FRekap: TFRekap;
    i: Integer;
    j: Integer;
    s: Integer;
    a: Integer;
    ki: double;
    ka: double;
    ks: double;

implementation

uses
    DM, DateUtils, Math;

{$R *.dfm}
procedure TFRekap.absen;
begin
    with zqRekap do
        begin
            Close;
            SQL.Clear;
            SQL.Text:='Select * from kehadiran';
            Open;
        end;
    end;
procedure TFRekap.btnRekapClick(Sender: TObject);
begin
    //absen;

```

```

//dbdvgrd1.DataSource:=DMo.dsAbsen;
//dxprntdlgRekap.Execute;
    PrintDBGridEh1.AfterGridText.Add('prosentase sakit =
'+sakit.Text+'%');
    PrintDBGridEh1.AfterGridText.Add('prosentase alpha =
'+alpha.Text+'%');
    PrintDBGridEh1.AfterGridText.Add('prosentase ijin =
'+ijin.Text+'%');
    PrintDBGridEh1.AfterGridText.Add('total presensi =
'+jumlah.Text);
    PrintDBGridEh1.Print;
end;

function duaFloat(const AValue: double): String;
var
simpan: array[1..2] of char;
begin
simpan[1]:=ThousandSeparator;
simpan[2]:=DecimalSeparator;
ThousandSeparator:='.';
DecimalSeparator:=',';
Result:=FormatFloat('#,#0.00 ;(#,#0.00) ;- ', AValue);
ThousandSeparator:=simpan[1];
DecimalSeparator:=simpan[2];
end;

procedure TFRekap.btnShowClick(Sender: TObject);
var
    kelasf,kelasj,statf:String;
    x:Integer;
begin
cxButtonEdit1.Text:='';

if cxComboBox1.text <> '-Semua Kelas-' then
begin
    kelasf:=' AND Kelas = ''+cxComboBox1.Text+''';
    kelasj:=' INNER join siswa on kehadiran.id_siswa =
siswa.id_siswa ';
end
else
begin
    kelasf:='';
    kelasj:=' INNER join siswa on kehadiran.id_siswa =
siswa.id_siswa ';
end;

if cxComboBox2.ItemIndex <> 0 then
    statf:=' AND `status` = ''+cxComboBox2.Text+''
else
    statf:='';

begin
    with prosentase do

```

```

begin
    Close;
    SQL.Clear;
    SQL.Text:='SELECT * FROM kehadiran '+kelasj+' WHERE
status="Sakit" '+kelasf+' AND DATE(tanggal) BETWEEN '
+ QuotedStr(FormatDateTime('yyyy-mm-
yy',dtp1.Date)) + ' AND '
+ QuotedStr(FormatDateTime('yyyy-mm-
yy',dtp2.Date));
    Open;
    s:=prosentase.RecordCount;
end ;

with prosentase do
begin
    Close;
    SQL.Clear;
    SQL.Text:='SELECT * FROM kehadiran '+kelasj+' WHERE
status="Ijin" '+kelasf+' AND DATE(tanggal) BETWEEN '
+ QuotedStr(FormatDateTime('yyyy-mm-
yy',dtp1.Date)) + ' AND '
+ QuotedStr(FormatDateTime('yyyy-mm-
yy',dtp2.Date));
    Open;
    i:=prosentase.RecordCount;
end ;

with prosentase do
begin
    Close;
    SQL.Clear;
    SQL.Text:='SELECT * FROM kehadiran '+kelasj+' WHERE
status="Alpha" '+kelasf+' AND DATE(tanggal) BETWEEN '
+ QuotedStr(FormatDateTime('yyyy-mm-
yy',dtp1.Date)) + ' AND '
+ QuotedStr(FormatDateTime('yyyy-mm-
yy',dtp2.Date));
    Open;
    a:=prosentase.RecordCount;
end ;

end;

with zqnr do
begin
    Close;
    SQL.Clear;
    SQL.Text:='SELECT NISN,Nama_siswa,Kelas, '
+ ' (SELECT COUNT(id_kehadiran) FROM kehadiran WHERE
`status` = "tepat waktu" AND kehadiran.id_siswa =
siswa.`id_siswa` AND DATE(tanggal) BETWEEN '+
QuotedStr(FormatDateTime('yyyy-mm-dd',dtp1.Date)) + ' AND '+
QuotedStr(FormatDateTime('yyyy-mm-dd',dtp2.Date))+') AS

```

```

tepat_waktu, '
    +' (SELECT COUNT(id_kehadiran) FROM kehadiran WHERE
`status` = "terlambat" AND kehadiran.id_siswa =
siswa.`id_siswa` AND DATE(tanggal) BETWEEN '+
QuotedStr(FormatDateTime('yyyy-mm-dd',dtp1.Date)) + ' AND '+
QuotedStr(FormatDateTime('yyyy-mm-dd',dtp2.Date))+ ' ) AS
terlambat, '
    +' (SELECT COUNT(id_kehadiran) FROM kehadiran WHERE
`status` = "sakit" AND kehadiran.id_siswa = siswa.`id_siswa`
AND DATE(tanggal) BETWEEN '+ QuotedStr(FormatDateTime('yyyy-
mm-dd',dtp1.Date)) + ' AND '+ QuotedStr(FormatDateTime('yyyy-
mm-dd',dtp2.Date))+ ' ) AS sakit, '
    +' (SELECT COUNT(id_kehadiran) FROM kehadiran WHERE
`status` = "ijin" AND kehadiran.id_siswa = siswa.`id_siswa`
AND DATE(tanggal) BETWEEN '+ QuotedStr(FormatDateTime('yyyy-
mm-dd',dtp1.Date)) + ' AND '+ QuotedStr(FormatDateTime('yyyy-
mm-dd',dtp2.Date))+ ' ) AS ijin, '
    +' (SELECT COUNT(id_kehadiran) FROM kehadiran WHERE
`status` = "alpha" AND kehadiran.id_siswa = siswa.`id_siswa`
AND DATE(tanggal) BETWEEN '+ QuotedStr(FormatDateTime('yyyy-
mm-dd',dtp1.Date)) + ' AND '+ QuotedStr(FormatDateTime('yyyy-
mm-dd',dtp2.Date))+ ' ) AS alpha '
    +' FROM kehadiran '
    +' INNER JOIN siswa ON kehadiran.`id_siswa` =
siswa.id_siswa '
    +' WHERE DATE(tanggal) BETWEEN '
    + QuotedStr(FormatDateTime('yyyy-mm-dd',dtp1.Date)) + '
AND '
    + QuotedStr(FormatDateTime('yyyy-mm-dd',dtp2.Date)) +
kelasf + statf + ' '
    +' GROUP BY kehadiran.id_siswa';
Open;
end;

with zqRekap do
begin
    Close;
    SQL.Clear;
    SQL.Text:='SELECT
id_kehadiran,Nama_siswa,tanggal,`status`,kelas,NISN FROM '+
`presensi_mahendra`.`kehadiran` '+
`INNER JOIN `presensi_mahendra`.`siswa`' +
`ON (`kehadiran`.`id_siswa` = `siswa`.`id_siswa`)
WHERE DATE(tanggal) BETWEEN '
    + QuotedStr(FormatDateTime('yyyy-mm-
dd',dtp1.Date)) + ' AND '
    + QuotedStr(FormatDateTime('yyyy-mm-
dd',dtp2.Date)) + kelasf + statf + ' order by tanggal';
    Open;
end;
Edit1.Text:=zqRekap.SQL.Text;
j:=zqRekap.RecordCount;
//dbdvgrd1.DataSource:=DMo.dsAbsen;

```

```

        //dbgrd1.DataSource:=DMo.dsAbsen;
        if j = 0 then
            begin
                MessageDlg('Tidak ada record', mtError, [mbOK], 0);
                Exit;
            end;
        If a=0 Then ka:=0 else ka:=a/j;
        If s=0 Then ks:=0 else ks:=s/j;
        If i=0 Then ki:=0 else ki:=i/j;

        alpha.Text :=Formatfloat('0.##',ka*100);
        sakit.Text :=Formatfloat('0.##',ks*100);
        ijin.Text :=Formatfloat('0.##',ki*100);
        jumlah.Text := IntToStr(j);

//override
if cxComboBox2.ItemIndex = 1 then
    begin
        alpha.Text :='0';
        sakit.Text :='100';
        ijin.Text :='0';
        jumlah.Text := IntToStr(j);
    end
else
if cxComboBox2.ItemIndex = 2 then
    begin
        alpha.Text :='0';
        sakit.Text :='0';
        ijin.Text :='100';
        jumlah.Text := IntToStr(j);
    end
else
if cxComboBox2.ItemIndex = 3 then
    begin
        alpha.Text :='100';
        sakit.Text :='0';
        ijin.Text :='0';
        jumlah.Text := IntToStr(j);
    end;

end;

procedure TFRekap.btn1Click(Sender: TObject);
begin
    dlgSave1.Execute;
    if dlgSave1.FileName <> '' then
        begin
            qxprt4xlsx1.Footer.Add('');
            qxprt4xlsx1.Footer.Add('prosentase sakit =
'+sakit.Text+'%');
            qxprt4xlsx1.Footer.Add('prosentase alpha =
'+alpha.Text+'%');
            qxprt4xlsx1.Footer.Add('prosentase ijin =

```

```

'+ijin.Text+'%');
    qxprt4xlsx1.Footer.Add('total presensi = '+jumlah.Text);
    qxprt4xlsx1.FileName:=dlgSave1.FileName;
    qxprt4xlsx1.Execute;
    MessageDlg('Data Berhasil di
export!',mtInformation,[mbOK],0);
    qxprt4xlsx1.Footer.Clear;
end;

end;

procedure TFRekap.PDFClick(Sender: TObject);
begin
    dlgSave2.Execute;
    if dlgSave2.FileName <> '' then
    begin
        qxprt4pdf1.Options.HeaderFont.FontSize:=24;
        qxprt4pdf1.Header.Add('SMP Godean');
        qxprt4pdf1.Options.HeaderFont.FontSize:=14;
        qxprt4pdf1.Header.Add('Laporan Presensi');
        qxprt4pdf1.Footer.Add('');
        qxprt4pdf1.Footer.Add('prosentase sakit =
'+sakit.Text+'%');
        qxprt4pdf1.Footer.Add('prosentase alpha =
'+alpha.Text+'%');
        qxprt4pdf1.Footer.Add('prosentase ijin =
'+ijin.Text+'%');
        qxprt4pdf1.Footer.Add('total presensi = '+jumlah.Text);
        qxprt4pdf1.FileName:=dlgSave2.FileName;
        qxprt4pdf1.Execute;
        MessageDlg('Data Berhasil di
export!',mtInformation,[mbOK],0);
        qxprt4pdf1.Footer.Clear;
    end
end;

procedure TFRekap.FormShow(Sender: TObject);
begin
    dtp1.Date:=Now;
    dtp2.date:=Now;
    cxComboBox1.Properties.Items.Clear;
    cxComboBox1.Properties.Items.Add('-Semua Kelas-');
    with DMO.zqpublic do
    begin
        Close;
        SQL.Clear;
        SQL.Text:='SELECT DISTINCT(kelas) FROM siswa';
        Open;
    end;
    while not DMO.zqpublic.Eof do
    begin
        cxComboBox1.Properties.Items.Add(DMO.zqpublic['Kelas']);
        DMO.zqpublic.Next;
    end;
end;

```



```

end;
cxComboBox1.ItemIndex:=0;

if login_as = 'wali' then
begin
label1.Visible:=False;
cxComboBox1.Visible:=false;
cxComboBox1.EditValue:=kelas_ses;
end
else
begin
label1.Visible:=True;
cxComboBox1.Visible:=True;
end;
end;

procedure TFrekap.dbgrd1DrawColumnCell(Sender: TObject; const
Rect: TRect;
DataCol: Integer; Column: TColumn; State: TGridDrawState);
begin
if DataCol=0 then
dbgrd1.Canvas.TextOut(Rect.Left + 2
                        , Rect.Top + 2
                        ,
IntToStr(dbgrd1.DataSource.DataSet.RecNo));
end;

procedure TFrekap.cxButton1Click(Sender: TObject);
begin
frxReport1.ShowReport();
end;

procedure TFrekap.cxButton2Click(Sender: TObject);
var
st_sakit,st_alpa,st_ijin,st_jumlah,AW,AK: TfrxMemoView;
begin

AW:=TfrxMemoView(frxReport1.FindComponent('MemoAW'));
AW.Text:=DateToStr(dtp1.date);

AK:=TfrxMemoView(frxReport1.FindComponent('MemoAK'));
AK.Text:=DateToStr(dtp2.date);

st_sakit:=TfrxMemoView(frxReport1.FindComponent('MemoSakit'));
st_sakit.Text:='Sakit: '+sakit.Text;

st_alpa:=TfrxMemoView(frxReport1.FindComponent('MemoAlpa'));
st_alpa.Text:='Alpha: '+alpha.Text;

st_ijin:=TfrxMemoView(frxReport1.FindComponent('MemoIjin'));
st_ijin.Text:='Ijin: '+ijin.Text;

st_jumlah:=TfrxMemoView(frxReport1.FindComponent('MemoJumlah'))

```

```

);
st_jumlah.Text:='Jumlah: '+jumlah.Text;

frxReport1.PrepareReport();
frxReport1.Export(frxPDFExport1);
end;

procedure TFRekap.cxBUTTONEdit1PropertiesChange(Sender:
TObject);
var
    kelasf,kelasj,statf,kwf:String;
begin
    if cxBUTTONEdit1.Text = '' then
        begin
            btnShowClick(nil);
            exit;
        end;

    kwf := ' AND Nama_siswa like "%'+cxBUTTONEdit1.Text+'%" or
NISN like "%'+cxBUTTONEdit1.Text+'%";

    if cxComboBox1.text <> '-Semua Kelas-' then
        begin
            kelasf:=' AND Kelas = "'+cxComboBox1.Text+'";
            kelasj:=' INNER join siswa on kehadiran.id_siswa =
siswa.id_siswa ';
        end
    else
        begin
            kelasf:='';
            kelasj:='';
        end;

    if cxComboBox2.ItemIndex <> 0 then
        statf:=' AND `status` = "'+cxComboBox2.Text+'"'
    else
        statf:='';

    begin
        with prosentase do
            begin
                Close;
                SQL.Clear;
                SQL.Text:='SELECT * FROM kehadiran '+kelasj+' WHERE
status="Sakit" '+kelasf+' AND DATE(tanggal) BETWEEN '
                    + QuotedStr(FormatDateTime('yyyy-mm-
yy',dtp1.Date)) + ' AND '
                    + QuotedStr(FormatDateTime('yyyy-mm-
yy',dtp2.Date));
                Open;
                s:=prosentase.RecordCount;
            end ;
        end
    end ;

```

```

with prosentase do
begin
Close;
    SQL.Clear;
    SQL.Text:='SELECT * FROM kehadiran '+kelasj+' WHERE
status="Ijin" '+kelasf+' AND DATE(tanggal) BETWEEN '
        + QuotedStr(FormatDateTime('yyyy-mm-
yy',dtp1.Date)) + ' AND '
        + QuotedStr(FormatDateTime('yyyy-mm-
yy',dtp2.Date));
    Open;
    i:=prosentase.RecordCount;
end ;

with prosentase do
begin
Close;
    SQL.Clear;
    SQL.Text:='SELECT * FROM kehadiran '+kelasj+' WHERE
status="Alpha" '+kelasf+' AND DATE(tanggal) BETWEEN '
        + QuotedStr(FormatDateTime('yyyy-mm-
yy',dtp1.Date)) + ' AND '
        + QuotedStr(FormatDateTime('yyyy-mm-
yy',dtp2.Date));
    Open;
    a:=prosentase.RecordCount;
end ;

end;

with zqRekap do
begin
Close;
    SQL.Clear;
    SQL.Text:='SELECT
id_kehadiran,Nama_siswa,tanggal,status,kelas,NISN FROM '+
    '`presensi_mahendra`.`kehadiran` '+
    'INNER JOIN `presensi_mahendra`.`siswa` ' +
    'ON (`kehadiran`.`id_siswa` = `siswa`.`id_siswa`)'
WHERE DATE(tanggal) BETWEEN '
        + QuotedStr(FormatDateTime('yyyy-mm-
dd',dtp1.Date)) + ' AND '
        + QuotedStr(FormatDateTime('yyyy-mm-
dd',dtp2.Date)) + kelasf + statf + kwf+' order by tanggal';
    Open;
end;
Edit1.Text:=zqRekap.SQL.Text;
j:=zqRekap.RecordCount;
//dbdvgrd1.DataSource:=DMo.dsAbsen;
//dbgrd1.DataSource:=DMo.dsAbsen;
if j = 0 then
begin
    MessageDlg('Tidak ada record', mtError, [mbOK], 0);

```

```

        Exit;
    end;
    If i=0 Then ki:=0 else ki:=i/j;
    If s=0 Then ks:=0 else ks:=s/j;
    If a=0 Then ka:=0 else ka:=a/j;
    alpha.Text :=Formatfloat('0.##',ka*100);
    sakit.Text :=Formatfloat('0.##',ks*100);
    ijin.Text :=Formatfloat('0.##',ki*100);
    jumlah.Text := IntToStr(j);

end;

end.

```

11. uRekap2.pas

```

unit uRekap2;

interface

uses
    Windows, Messages, SysUtils, Variants, Classes, Graphics,
    Controls, Forms,
    Dialogs, StdCtrls, ComCtrls, Grids, DBGrids, DB,
    ZAbstractRODataset,
    ZAbstractDataset, ZDataset, AdvObj, BaseGrid, AdvGrid, DBAdvGrid,
    cxGraphics, cxControls, cxLookAndFeels, cxLookAndFeelPainters,
    cxContainer, cxEdit, dxSkinsCore, dxSkinsDefaultPainters,
    cxTextEdit,
    cxMaskEdit, cxDropDownEdit, cxButtonEdit, Menus, cxButtons,
    cxLabel,
    ExtCtrls, AdvPanel;

type
    TfrmKehadiran = class(TForm)
        dtp1: TDateTimePicker;
        dtp2: TDateTimePicker;
        DataSource1: TDataSource;
        ZQuery1: TZQuery;
        dbgrd1: TDBAdvGrid;
        cxComboBox1: TcxComboBox;
        cxButtonEdit1: TcxButtonEdit;
        btn1: TcxButton;
        AdvPanel1: TAdvPanel;
        cxLabel1: TcxLabel;
        cxLabel2: TcxLabel;
        cxlblkelas: TcxLabel;
        procedure btn1Click(Sender: TObject);
        procedure FormShow(Sender: TObject);
        procedure cxButtonEdit1PropertiesChange(Sender: TObject);
    private
        { Private declarations }
    public
        { Public declarations }
    end;

```

```

var
    frmKehadiran: TfrmKehadiran;

implementation

uses
    DM;

{$R *.dfm}

procedure TfrmKehadiran.btn1Click(Sender: TObject);
var
    q:string;
    qf:String;
begin
    if cxComboBox1.Text <> 'Semua Kelas' then
    begin
        qf:=' AND Kelas = "'+cxComboBox1.Text+'" ';
    end;

    //hadir
    q:='SELECT siswa.`Nama_siswa`,kelas, COUNT(kehadiran.`id_kehadiran`)
    AS Jumlah '
    +' FROM kehadiran INNER JOIN siswa USING (id_siswa) '
    +' WHERE (kehadiran.`status` = "Terlambat" '
    +' OR kehadiran.`status` = "Tepat Waktu") '+qf
    +' AND kehadiran.tanggal>="'+ FormatDateTime('yyy-mm-dd',dtp1.Date)+'" '
    +' AND kehadiran.tanggal<="'+ FormatDateTime('yyy-mm-dd',dtp2.Date)+'" '
    +' GROUP BY siswa.`Nama_siswa` ';
    zquery1.Close;
    zquery1.SQL.Text:=q;
    zquery1.Open;

    DBGrd1.Columns[1].Width:=260;
    DBGrd1.Columns[2].Width:=80;
    DBGrd1.Columns[3].Width:=80;

    cxlblkelas.Caption:=cxComboBox1.Text;

end;

procedure TfrmKehadiran.FormShow(Sender: TObject);
begin
    dtp1.Date:=Now;
    dtp2.date:=Now;
    cxComboBox1.Properties.Items.Clear;
    cxComboBox1.Properties.Items.Add('Semua Kelas');
    with DMo.zqpublic do
    begin
        Close;
        SQL.Clear;
        SQL.Text:='SELECT DISTINCT(kelas) FROM siswa';
        Open;
    end;
    while not DMo.zqpublic.Eof do
    begin
        cxComboBox1.Properties.Items.Add(DMo.zqpublic['Kelas']);
    end;
end;

```

```

    DMo.zqpublic.Next;
    end;
cxComboBox1.ItemIndex:=0;

if login_as = 'wali' then
    begin
        cxComboBox1.Text:=kelas_ses;
        cxlblkelas.Caption:=kelas_ses;
        cxComboBox1.Visible:=False;
    end
else
    begin
        cxComboBox1.Text:='Semua Kelas';
        cxlblkelas.Caption:='Semua Kelas';
        cxComboBox1.Visible:=true;
    end;
end;

procedure TfrmKehadiran.cxButtonEdit1PropertiesChange(Sender:
TObject);
var
    q:string;
    qf:String;
begin
    if cxComboBox1.Text <> 'Semua Kelas' then
        begin
            qf:=' AND Kelas = "'+cxComboBox1.Text+'" ';
        end;

//hadir
q:='SELECT siswa.`Nama_siswa`,kelas, COUNT(kehadiran.`id_kehadiran`)
AS Jumlah '
+' FROM kehadiran INNER JOIN siswa USING (id_siswa) '
+' WHERE (kehadiran.`status` = "Terlambat" '
+' OR kehadiran.`status` = "Tepat Waktu") '+qf
+' AND kehadiran.tanggal>="'+ FormatDateTime('yyy-mm-
dd',dtp1.Date)+'" '
+' AND kehadiran.tanggal<="'+ FormatDateTime('yyy-mm-
dd',dtp2.Date)+'" '
+' AND Nama_siswa like "%'+cxButtonEdit1.Text+'%" '
+' GROUP BY siswa.`Nama_siswa` ';
zquery1.Close;
zquery1.SQL.Text:=q;
zquery1.Open;

DBGrd1.Columns[1].Width:=260;
DBGrd1.Columns[2].Width:=80;
DBGrd1.Columns[3].Width:=80;

end;

end.

```

12. uRekap3.pas

```

unit uRekap3;

interface

uses
  Windows, Messages, SysUtils, Variants, Classes, Graphics,
  Controls, Forms,
  Dialogs, cxGraphics, cxControls, cxLookAndFeels,
  cxLookAndFeelPainters,
  cxContainer, cxEdit, dxSkinsCore, dxSkinsDefaultPainters, Menus,
  DB,
  ZAbstractRODataset, ZAbstractDataset, ZDataset, Grids, AdvObj,
  BaseGrid,
  AdvGrid, DBAdvGrid, StdCtrls, cxButtons, cxButtonEdit, cxTextEdit,
  cxMaskEdit, cxDropDownEdit, ComCtrls, cxLabel, ExtCtrls, AdvPanel;

type
  TfrmSakit = class(TForm)
    dtp1: TDateTimePicker;
    dtp2: TDateTimePicker;
    cxComboBox1: TcxComboBox;
    cxButtonEdit1: TcxButtonEdit;
    btn1: TcxButton;
    DBGrid1: TDBAdvGrid;
    zq1: TZQuery;
    ds1: TDataSource;
    AdvPanel1: TAdvPanel;
    cxLabel1: TcxLabel;
    cxLabel2: TcxLabel;
    cxlblkelas: TcxLabel;
    procedure btn1Click(Sender: TObject);
    procedure FormShow(Sender: TObject);
    procedure cxButtonEdit1PropertiesChange(Sender: TObject);
  private
    { Private declarations }
  public
    { Public declarations }
  end;

var
  frmSakit: TfrmSakit;

implementation

uses DM;

{$R *.dfm}

procedure TfrmSakit.btn1Click(Sender: TObject);
var
  q,qf:String;
begin
  if cxComboBox1.Text <> 'Semua Kelas' then
    begin
      qf:=' AND Kelas = "'+cxComboBox1.Text+'" ';
    end;

  //sakit
  q:='SELECT siswa.`Nama siswa`,kelas, COUNT(kehadiran.`id kehadiran`)'

```

```

AS Jumlah '
+' FROM kehadiran INNER JOIN siswa USING (id_siswa) '
+' WHERE kehadiran.`status` = "Sakit"+qf
+' AND kehadiran.tanggal>="'+ FormatDateTime('yyy-mm-dd',dtp1.Date)+'" '
+' AND kehadiran.tanggal<="'+ FormatDateTime('yyy-mm-dd',dtp2.Date)+'" '
+' GROUP BY siswa.`Nama_siswa` ' ;
zq1.Close;
zq1.SQL.Text:=q;
zq1.Open;
DBGrid1.Columns[1].Width:=260;
DBGrid1.Columns[2].Width:=80;
DBGrid1.Columns[3].Width:=80;

cxlblkelas.Caption:=cxComboBox1.Text;
end;

procedure TfrmSakit.FormShow(Sender: TObject);
begin
dtp1.Date:=Now;
dtp2.date:=Now;
cxComboBox1.Properties.Items.Clear;
cxComboBox1.Properties.Items.Add('Semua Kelas');
with DMO.zqpublic do
begin
Close;
SQL.Clear;
SQL.Text:='SELECT DISTINCT(kelas) FROM siswa';
Open;
end;
while not DMO.zqpublic.Eof do
begin
cxComboBox1.Properties.Items.Add(DMO.zqpublic['Kelas']);
DMO.zqpublic.Next;
end;
cxComboBox1.ItemIndex:=0;

if login_as = 'wali' then
begin
cxComboBox1.Text:=kelas_ses;
cxlblkelas.Caption:=kelas_ses;
cxComboBox1.Visible:=False;
end
else
begin
cxComboBox1.Text:='Semua Kelas';
cxlblkelas.Caption:='Semua Kelas';
cxComboBox1.Visible:=True;
end;

end;

procedure TfrmSakit.cxButtonEdit1PropertiesChange(Sender: TObject);
var
q:string;
qf:String;
begin
if cxComboBox1.Text <> 'Semua Kelas' then

```



```

begin
  qf:=' AND Kelas = "'+cxComboBox1.Text+'" ' ;
end;

//hadir
q:='SELECT siswa.`Nama_siswa`,kelas, COUNT(kehadiran.`id_kehadiran`)
AS Jumlah '
+' FROM kehadiran INNER JOIN siswa USING (id_siswa) '
+' WHERE kehadiran.`status` = "sakit" '+qf
+' AND kehadiran.tanggal>="'+ FormatDateTime('yyy-mm-dd',dtp1.Date)+'" '
+' AND kehadiran.tanggal<="'+ FormatDateTime('yyy-mm-dd',dtp2.Date)+'" '
+' AND Nama_siswa like "%'+cxButtonEdit1.Text+'%" '
+' GROUP BY siswa.`Nama_siswa` ' ;
zq1.Close;
zq1.SQL.Text:=q;
zq1.Open;

DBGrid1.Columns[1].Width:=260;
DBGrid1.Columns[2].Width:=80;
DBGrid1.Columns[3].Width:=80;
end;

end.

```

13. uRekap4.pas

```

unit uRekap4;

interface

uses
  Windows, Messages, SysUtils, Variants, Classes, Graphics,
  Controls, Forms,
  Dialogs, cxGraphics, cxControls, cxLookAndFeels,
  cxLookAndFeelPainters,
  cxContainer, cxEdit, dxSkinsCore, dxSkinsDefaultPainters, Menus,
  DB,
  ZAbstractRODataset, ZAbstractDataset, ZDataset, Grids, AdvObj,
  BaseGrid,
  AdvGrid, DBAdvGrid, StdCtrls, cxButtons, cxButtonEdit, cxTextEdit,
  cxMaskEdit, cxDropDownEdit, ComCtrls, cxLabel, ExtCtrls, AdvPanel;

type
  TfrmIjin = class(TForm)
    dtp1: TDateTimePicker;
    dtp2: TDateTimePicker;
    cxComboBox1: TcxComboBox;
    cxButtonEdit1: TcxButtonEdit;
    btn1: TcxButton;
    DBGrid2: TDBAdvGrid;
    DataSource1: TDataSource;
    ZQuery2: TZQuery;
    AdvPanel1: TAdvPanel;
    cxLabel1: TcxLabel;

```

```

        cxLabel2: TcxLabel;
        cxlblkelas: TcxLabel;
        procedure btn1Click(Sender: TObject);
        procedure FormShow(Sender: TObject);
        procedure cxButtonEdit1PropertiesChange(Sender: TObject);
    private
        { Private declarations }
    public
        { Public declarations }
    end;

var
    frmIjin: TfrmIjin;

implementation

uses DM;

{$R *.dfm}

procedure TfrmIjin.btn1Click(Sender: TObject);
var
    q,qf:String;
begin
    if cxComboBox1.Text <> 'Semua Kelas' then
        begin
            qf:=' AND Kelas = "'+cxComboBox1.Text+'" ';
        end;

    //ijin
    q:='SELECT siswa.`Nama_siswa`,kelas ,
    COUNT(kehadiran.`id_kehadiran`) AS Jumlah '
    +' FROM kehadiran INNER JOIN siswa USING (id_siswa) '
    +' WHERE kehadiran.`status` = "Ijin" '+qf
    +' AND kehadiran.tanggal>="'+ FormatDateTime('yyy-mm-dd',dtp1.Date)+'" '
    +' AND kehadiran.tanggal<="'+ FormatDateTime('yyy-mm-dd',dtp2.Date)+'" '
    +' GROUP BY siswa.`Nama_siswa` ';
    zquery2.Close;
    zquery2.SQL.Text:=q;
    zquery2.Open;

    DBGrid2.Columns[1].Width:=260;
    DBGrid2.Columns[2].Width:=80;
    DBGrid2.Columns[3].Width:=80;

    cxlblkelas.Caption:=cxComboBox1.Text;
end;

procedure TfrmIjin.FormShow(Sender: TObject);
begin
    dtp1.Date:=Now;
    dtp2.date:=Now;
    cxComboBox1.Properties.Items.Clear;
    cxComboBox1.Properties.Items.Add('Semua Kelas');
    with DMO.zqpublic do
        begin

```

```

Close;
SQL.Clear;
SQL.Text:='SELECT DISTINCT(kelas) FROM siswa';
Open;
end;
while not DMo.zqpublic.Eof do
begin
cxComboBox1.Properties.Items.Add(DMo.zqpublic['Kelas']);
DMo.zqpublic.Next;
end;
cxComboBox1.ItemIndex:=0;

if login_as = 'wali' then
begin
cxComboBox1.Text:=kelas_ses;
cxlblkelas.Caption:=kelas_ses;
cxComboBox1.Visible:=False;
end
else
begin
cxComboBox1.Text:='Semua Kelas';
cxlblkelas.Caption:='Semua Kelas';
cxComboBox1.Visible:=True;
end;
end;

procedure TfrmIjin.cxButtonEdit1PropertiesChange(Sender: TObject);
var
q,qf:String;
begin
if cxComboBox1.Text <> 'Semua Kelas' then
begin
qf:=' AND Kelas = "'+cxComboBox1.Text+'" ';
end;

//ijin
q:='SELECT siswa.`Nama_siswa`,kelas ,
COUNT(kehadiran.`id_kehadiran`) AS Jumlah '
+' FROM kehadiran INNER JOIN siswa USING (id_siswa) '
+' WHERE kehadiran.`status` = "Ijin" '+qf
+' AND kehadiran.tanggal>="'+ FormatDateTime('yyy-mm-dd',dtp1.Date)+'" '
+' AND kehadiran.tanggal<="'+ FormatDateTime('yyy-mm-dd',dtp2.Date)+'" '
+' AND Nama_siswa like "%'+cxButtonEdit1.Text+'%" '
+' GROUP BY siswa.`Nama_siswa` ';
zquery2.Close;
zquery2.SQL.Text:=q;
zquery2.Open;

DBGrid2.Columns[1].Width:=260;
DBGrid2.Columns[2].Width:=80;
DBGrid2.Columns[3].Width:=80;
end;

end.

```

14. uRekap5.pas

```
unit uRekap5;

interface

uses
  Windows, Messages, SysUtils, Variants, Classes, Graphics,
  Controls, Forms,
  Dialogs, cxGraphics, cxControls, cxLookAndFeels,
  cxLookAndFeelPainters,
  cxContainer, cxEdit, dxSkinsCore, dxSkinsDefaultPainters, Menus,
  DB,
  ZAbstractRODataset, ZAbstractDataset, ZDataset, Grids, AdvObj,
  BaseGrid,
  AdvGrid, DBAdvGrid, StdCtrls, cxButtons, cxButtonEdit, cxTextEdit,
  cxMaskEdit, cxDropDownEdit, ComCtrls, cxLabel, ExtCtrls, AdvPanel;

type
  TfrmAlpha = class(TForm)
    dtp1: TDateTimePicker;
    dtp2: TDateTimePicker;
    cxComboBox1: TcxComboBox;
    cxButtonEdit1: TcxButtonEdit;
    btn1: TcxButton;
    DBAdvGrid1: TDBAdvGrid;
    DataSource1: TDataSource;
    ZQuery3: TZQuery;
    AdvPanel1: TAdvPanel;
    cxLabel1: TcxLabel;
    cxLabel2: TcxLabel;
    cxlblkelas: TcxLabel;
    procedure btn1Click(Sender: TObject);
    procedure FormShow(Sender: TObject);
    procedure cxButtonEdit1PropertiesChange(Sender: TObject);
  private
    { Private declarations }
  public
    { Public declarations }
  end;

var
  frmAlpha: TfrmAlpha;

implementation

uses DM;

{$R *.dfm}

procedure TfrmAlpha.btn1Click(Sender: TObject);
var
  q:string;
  qf:String;
begin
  if cxComboBox1.Text <> 'Semua Kelas' then
    begin
      qf:=' AND Kelas = "'+cxComboBox1.Text+'" ';
```

```

end;

//alpa
q:='SELECT siswa.`Nama_siswa`,kelas ,
COUNT(kehadiran.`id_kehadiran`) AS Jumlah '
+' FROM kehadiran INNER JOIN siswa USING (id_siswa) '
+' WHERE kehadiran.`status` = "Alpha" '+qf
+' AND kehadiran.tanggal>="'+ FormatDateTime('yyy-mm-dd',dtp1.Date)+'" '
+' AND kehadiran.tanggal<="'+ FormatDateTime('yyy-mm-dd',dtp2.Date)+'" '
+' GROUP BY siswa.`Nama_siswa` ';
zquery3.Close;
zquery3.SQL.Text:=q;
zquery3.Open;

DBAdvGrid1.Columns[1].Width:=260;
DBAdvGrid1.Columns[2].Width:=80;
DBAdvGrid1.Columns[3].Width:=80;

cxlblkelas.Caption:=cxComboBox1.Text;
end;

procedure TfrmAlpha.FormShow(Sender: TObject);
begin
dtp1.Date:=Now;
dtp2.date:=Now;
cxComboBox1.Properties.Items.Clear;
cxComboBox1.Properties.Items.Add('Semua Kelas');
with DMO.zqpublic do
begin
Close;
SQL.Clear;
SQL.Text:='SELECT DISTINCT(kelas) FROM siswa';
Open;
end;
while not DMO.zqpublic.Eof do
begin
cxComboBox1.Properties.Items.Add(DMO.zqpublic['Kelas']);
DMO.zqpublic.Next;
end;
cxComboBox1.ItemIndex:=0;

if login_as = 'wali' then
begin
cxComboBox1.Text:=kelas_ses;
cxlblkelas.Caption:=kelas_ses;
cxComboBox1.Visible:=False;
end
else
begin
cxComboBox1.Text:='Semua Kelas';
cxlblkelas.Caption:='Semua Kelas';
cxComboBox1.Visible:=True;
end;
end;

procedure TfrmAlpha.cxBtnEdit1PropertiesChange(Sender: TObject);

```

```

var
    q,qf:String;
begin
if cxComboBox1.Text <> 'Semua Kelas' then
    begin
        qf:=' AND Kelas = "'+cxComboBox1.Text+'" ' ;
    end;

//alpa
q:='SELECT siswa.`Nama_siswa`,kelas ,
COUNT(kehadiran.`id_kehadiran`) AS Jumlah '
+' FROM kehadiran INNER JOIN siswa USING (id_siswa) '
+' WHERE kehadiran.`status` = "Alpha" '+qf
+' AND kehadiran.tanggal>="'+ FormatDateTime('yyy-mm-dd',dtp1.Date)+'" '
+' AND kehadiran.tanggal<="'+ FormatDateTime('yyy-mm-dd',dtp2.Date)+'" '
+' AND Nama_siswa like "%'+cxButtonEdit1.Text+'%" '
+' GROUP BY siswa.`Nama_siswa` ' ;
zquery3.Close;
zquery3.SQL.Text:=q;
zquery3.Open;

DBAdvGrid1.Columns[1].Width:=260;
DBAdvGrid1.Columns[2].Width:=80;
DBAdvGrid1.Columns[3].Width:=80;
end;

end.

```

15. uSeting.pas

```

unit uSeting;

interface

uses
    Windows, Messages, SysUtils, Variants, Classes, Graphics,
    Controls, Forms,
    Dialogs, StdCtrls, ExtCtrls;

type
    TFSetting = class(TForm)
        grp1: TGroupBox;
        lbl1: TLabel;
        lbl2: TLabel;
        lbl3: TLabel;
        lbl4: TLabel;
        lbl5: TLabel;
        edt1: TEdit;
        edt2: TEdit;
        btn1: TButton;
        rg1: TRadioGroup;
        rg2: TRadioGroup;
        rg3: TRadioGroup;
    private

```

```
    { Private declarations }  
    public  
    { Public declarations }  
    end;  
  
var  
    FSetting: TFSetting;  
  
implementation  
  
{$R *.dfm}  
  
end.
```

Nama :

Berikan tanda silang (X) pada pilihan jawaban menurut pendapat anda !

- Yogyakarta, 2016

$$\left(\begin{array}{c} \text{ } \\ \text{ } \end{array} \right)$$